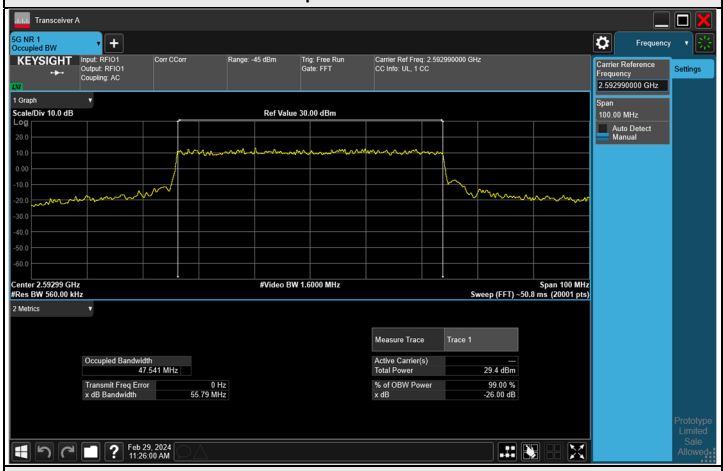
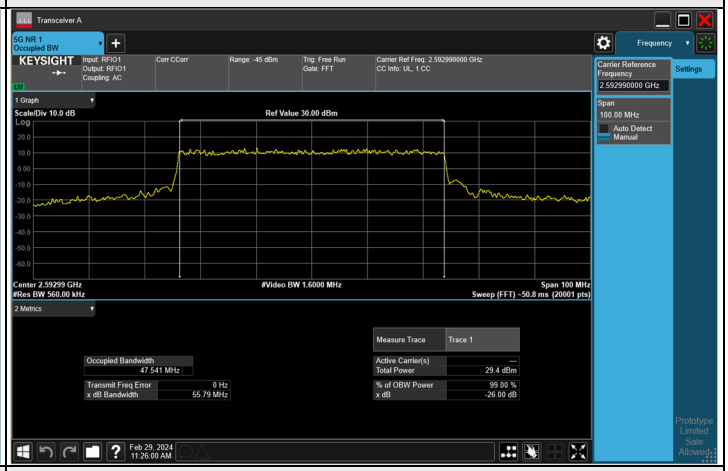
NR n41 SCS 30 kHz - MIMO-Ant5, Channel Bandwidth: 40 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	503202	2516.01	37.876	47.72
QPSK	518598	2592.99	37.939	42.11
QPSK	534000	2670	37.908	41.87
16QAM	503202	2516.01	37.832	43.09
16QAM	518598	2592.99	37.953	42.43
16QAM	534000	2670	37.809	39.82
64QAM	503202	2516.01	37.809	41.55
64QAM	518598	2592.99	37.824	40.16
64QAM	534000	2670	37.843	40.77
256QAM	503202	2516.01	37.690	41.27
256QAM	518598	2592.99	37.714	39.96
256QAM	534000	2670	37.721	41.28

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
16QAM CH 518598 (2592.99 MHz)	QPSK CH 503202 (2516.01 MHz)

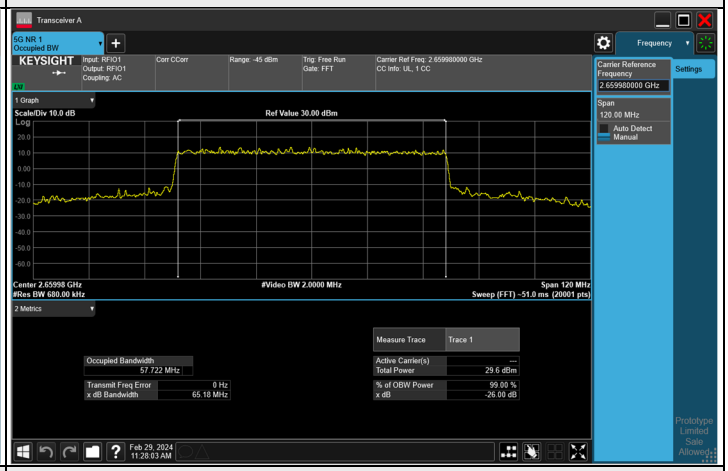
NR n41 SCS 30 kHz - MIMO-Ant5, Channel Bandwidth: 50 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	504204	2521.02	47.372	50.28
QPSK	518598	2592.99	47.472	51.01
QPSK	532998	2664.99	47.411	49.85
16QAM	504204	2521.02	47.455	50.32
16QAM	518598	2592.99	47.511	52.65
16QAM	532998	2664.99	47.471	51.17
64QAM	504204	2521.02	47.474	52.10
64QAM	518598	2592.99	47.541	55.79
64QAM	532998	2664.99	47.535	51.68
256QAM	504204	2521.02	47.351	50.95
256QAM	518598	2592.99	47.383	51.37
256QAM	532998	2664.99	47.325	51.62

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
64QAM CH 518598 (2592.99 MHz)	64QAM CH 518598 (2592.99 MHz)

NR n41 SCS 30 kHz - MIMO-Ant5, Channel Bandwidth: 60 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	505200	2526	57.591	60.54
QPSK	518598	2592.99	57.712	61.22
QPSK	531996	2659.98	57.747	60.71
16QAM	505200	2526	57.713	61.05
16QAM	518598	2592.99	57.831	63.15
16QAM	531996	2659.98	57.830	63.55
64QAM	505200	2526	57.664	60.05
64QAM	518598	2592.99	57.710	61.16
64QAM	531996	2659.98	57.722	65.18
256QAM	505200	2526	57.650	62.53
256QAM	518598	2592.99	57.672	63.38
256QAM	531996	2659.98	57.630	60.20

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
16QAM CH 518598 (2592.99 MHz)	64QAM CH 531996 (2659.98 MHz)

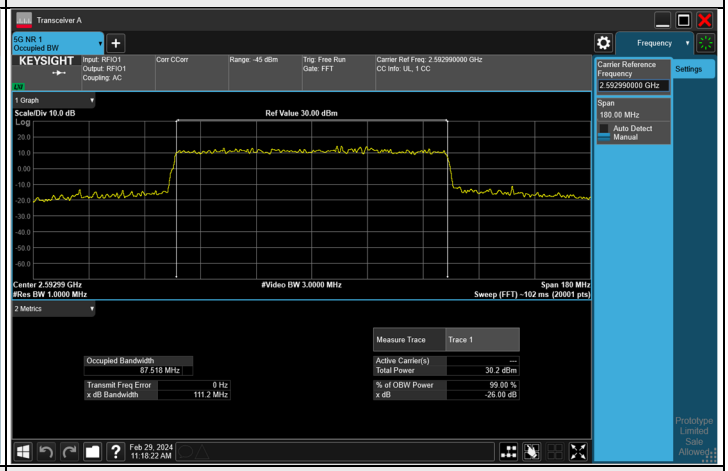
NR n41 SCS 30 kHz - MIMO-Ant5, Channel Bandwidth: 80 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	507204	2536.02	77.302	83.36
QPSK	518598	2592.99	77.442	84.93
QPSK	529998	2649.99	77.379	91.96
16QAM	507204	2536.02	77.317	85.05
16QAM	518598	2592.99	77.409	102.5
16QAM	529998	2649.99	77.398	81.61
64QAM	507204	2536.02	77.283	82.03
64QAM	518598	2592.99	77.352	81.89
64QAM	529998	2649.99	77.428	82.26
256QAM	507204	2536.02	77.459	82.78
256QAM	518598	2592.99	77.537	82.48
256QAM	529998	2649.99	77.441	83.17

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
256QAM CH 518598 (2592.99 MHz)	16QAM CH 518598 (2592.99 MHz)

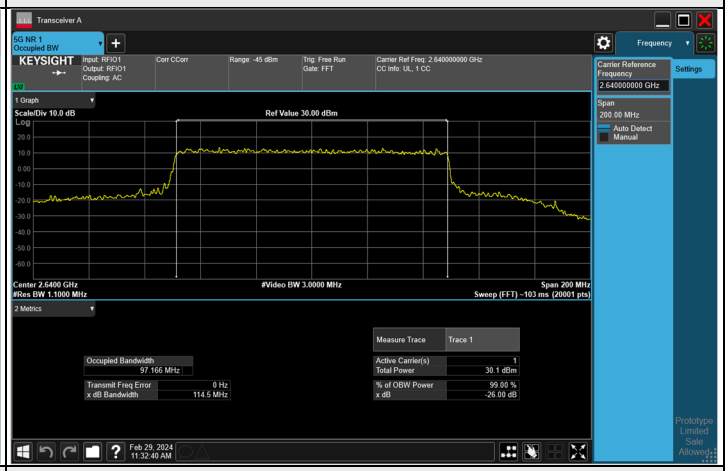
NR n41 SCS 30 kHz - MIMO-Ant5, Channel Bandwidth: 90 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	508200	2541	87.195	92.11
QPSK	518598	2592.99	87.318	90.57
QPSK	528996	2644.98	87.358	91.98
16QAM	508200	2541	87.391	92.76
16QAM	518598	2592.99	87.518	111.2
16QAM	528996	2644.98	87.499	92.89
64QAM	508200	2541	87.158	90.78
64QAM	518598	2592.99	87.198	92.74
64QAM	528996	2644.98	87.236	92.21
256QAM	508200	2541	87.033	93.80
256QAM	518598	2592.99	86.999	92.81
256QAM	528996	2644.98	87.144	90.46

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
16QAM CH 518598 (2592.99 MHz)	16QAM CH 518598 (2592.99 MHz)

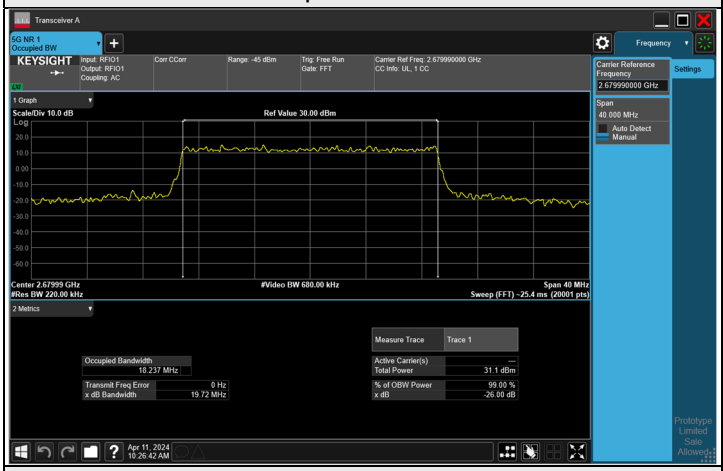
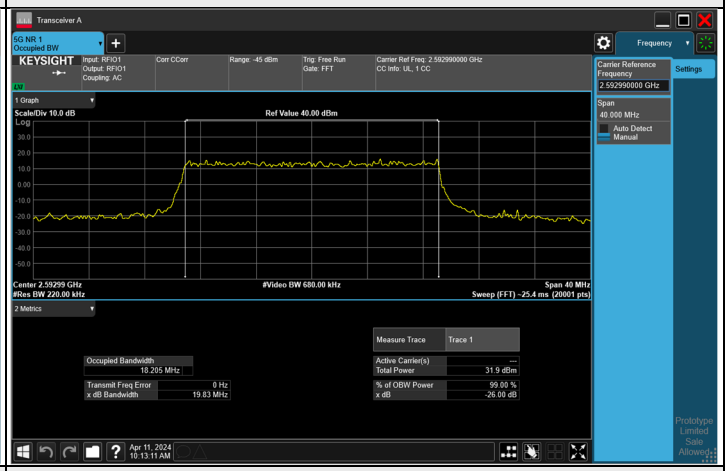
NR n41 SCS 30 kHz - MIMO-Ant5, Channel Bandwidth: 100 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	509202	2546.01	97.207	101.3
QPSK	518598	2592.99	97.168	102.0
QPSK	528000	2640	97.102	103.5
16QAM	509202	2546.01	97.229	101.4
16QAM	518598	2592.99	97.386	113.2
16QAM	528000	2640	97.268	104.3
64QAM	509202	2546.01	97.264	105.4
64QAM	518598	2592.99	97.340	104.5
64QAM	528000	2640	97.166	114.5
256QAM	509202	2546.01	97.081	102.6
256QAM	518598	2592.99	97.124	103.6
256QAM	528000	2640	97.145	103.1

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
16QAM CH 518598 (2592.99 MHz)	64QAM CH 528000 (2640 MHz)

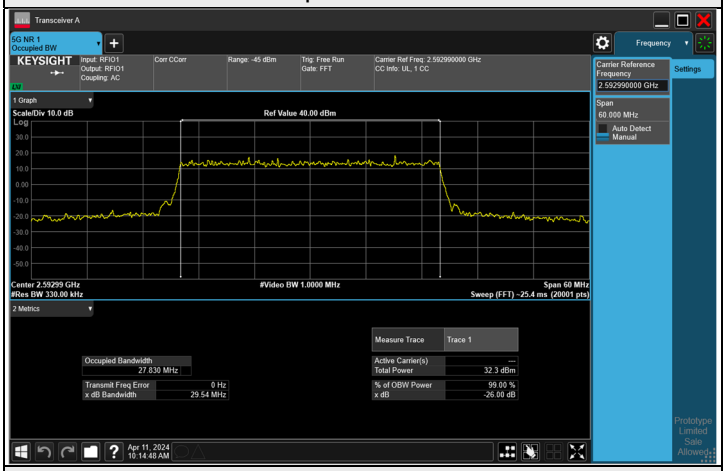
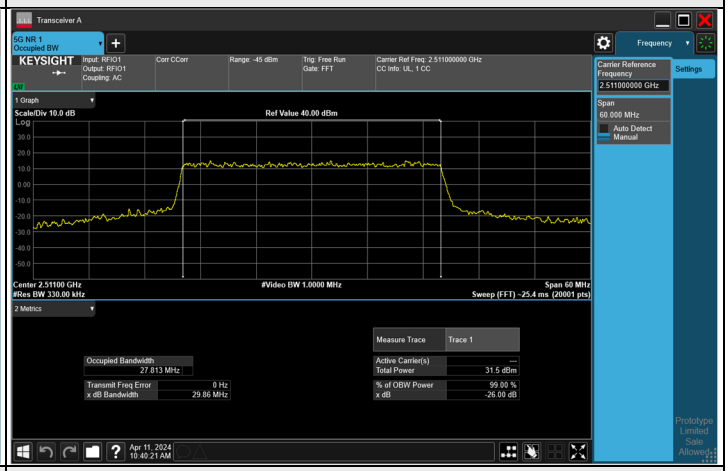
NR n41 SCS 30 kHz - MIMO-Ant6, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	501204	2506.02	18.197	19.62
QPSK	518598	2592.99	18.205	19.83
QPSK	535998	2679.99	18.213	19.72
16QAM	501204	2506.02	18.233	19.70
16QAM	518598	2592.99	18.225	19.67
16QAM	535998	2679.99	18.237	19.72
64QAM	501204	2506.02	18.210	19.82
64QAM	518598	2592.99	18.204	19.56
64QAM	535998	2679.99	18.202	19.65
256QAM	501204	2506.02	18.181	19.58
256QAM	518598	2592.99	18.188	19.68
256QAM	535998	2679.99	18.210	19.68

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
16QAM CH 535998 (2679.99 MHz)	QPSK CH 518598 (2592.99 MHz)

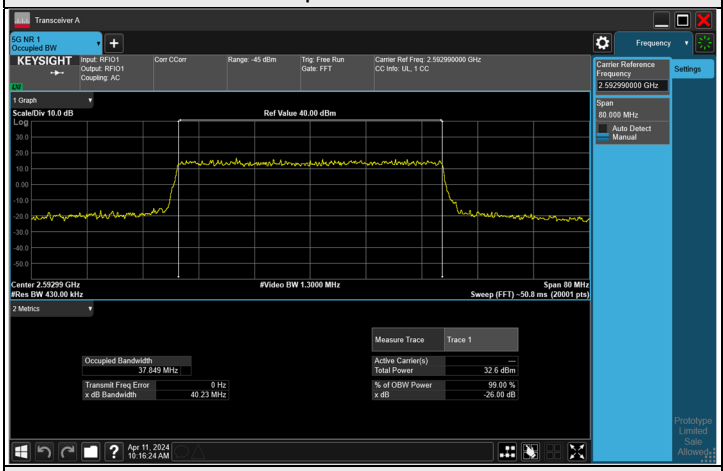
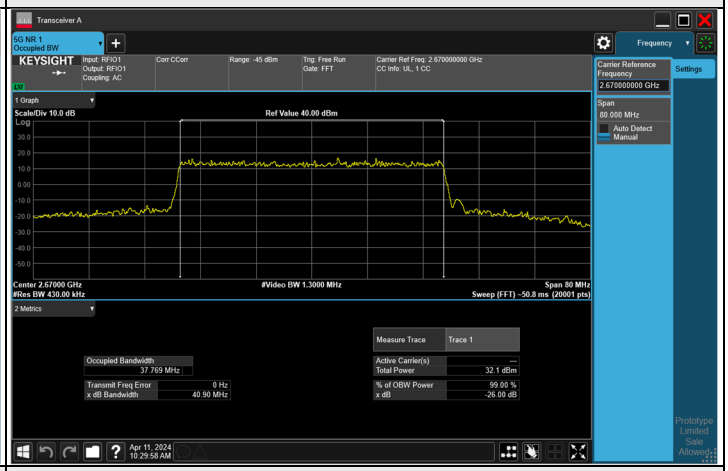
NR n41 SCS 30 kHz - MIMO-Ant6, Channel Bandwidth: 30 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	502200	2511	27.799	29.61
QPSK	518598	2592.99	27.830	29.54
QPSK	534996	2674.98	27.817	29.79
16QAM	502200	2511	27.759	29.25
16QAM	518598	2592.99	27.786	29.62
16QAM	534996	2674.98	27.776	29.24
64QAM	502200	2511	27.813	29.86
64QAM	518598	2592.99	27.799	29.66
64QAM	534996	2674.98	27.804	29.50
256QAM	502200	2511	27.788	29.81
256QAM	518598	2592.99	27.817	29.49
256QAM	534996	2674.98	27.818	29.59

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
QPSK CH 518598 (2592.99 MHz)	64QAM CH 502200 (2511 MHz)

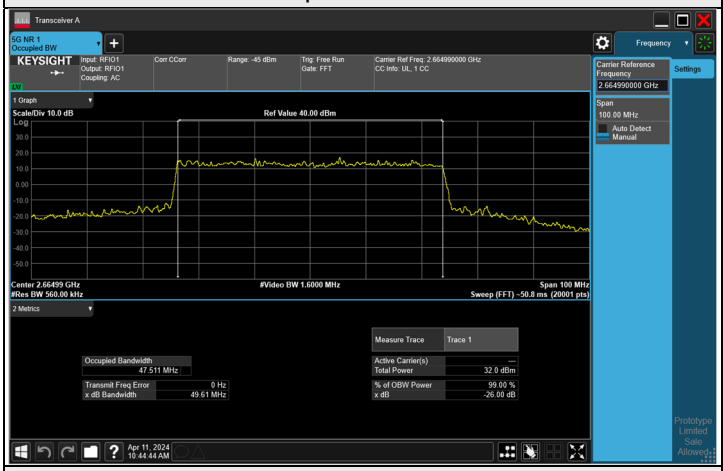
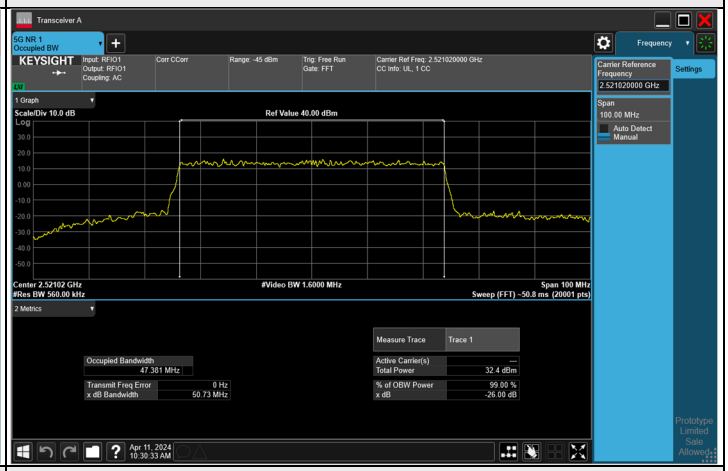
NR n41 SCS 30 kHz - MIMO-Ant6, Channel Bandwidth: 40 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	503202	2516.01	37.801	40.64
QPSK	518598	2592.99	37.849	40.23
QPSK	534000	2670	37.818	40.18
16QAM	503202	2516.01	37.753	39.66
16QAM	518598	2592.99	37.753	39.66
16QAM	534000	2670	37.769	40.90
64QAM	503202	2516.01	37.784	39.96
64QAM	518598	2592.99	37.753	39.75
64QAM	534000	2670	37.802	39.87
256QAM	503202	2516.01	37.689	39.90
256QAM	518598	2592.99	37.691	39.82
256QAM	534000	2670	37.730	39.82

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
QPSK CH 518598 (2592.99 MHz)	16QAM CH 534000 (2670 MHz)

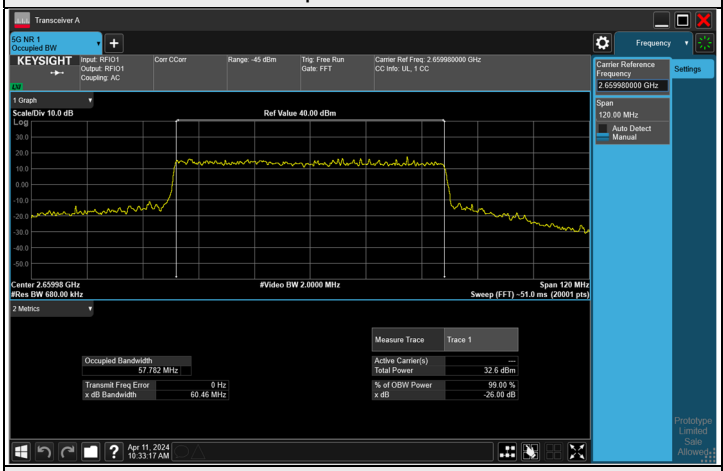
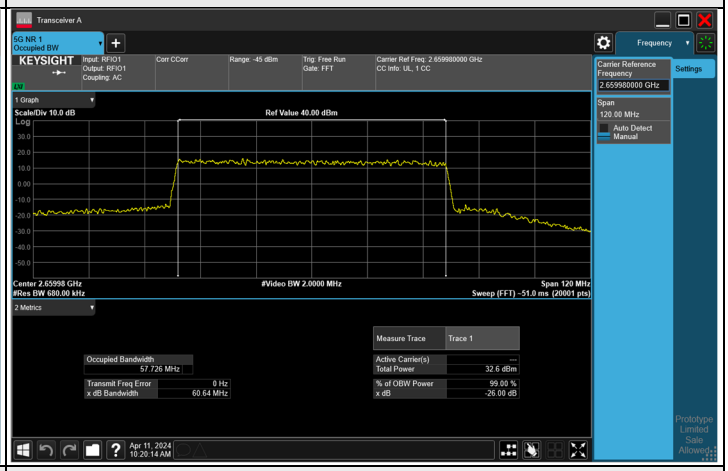
NR n41 SCS 30 kHz - MIMO-Ant6, Channel Bandwidth: 50 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	504204	2521.02	47.350	49.79
QPSK	518598	2592.99	47.390	49.71
QPSK	532998	2664.99	47.391	49.71
16QAM	504204	2521.02	47.381	50.73
16QAM	518598	2592.99	47.371	49.61
16QAM	532998	2664.99	47.392	49.60
64QAM	504204	2521.02	47.425	49.82
64QAM	518598	2592.99	47.482	49.71
64QAM	532998	2664.99	47.511	49.61
256QAM	504204	2521.02	47.351	49.72
256QAM	518598	2592.99	47.365	49.69
256QAM	532998	2664.99	47.423	49.73

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
64QAM CH 532998 (2664.99 MHz)	16QAM CH 504204 (2521.02 MHz)

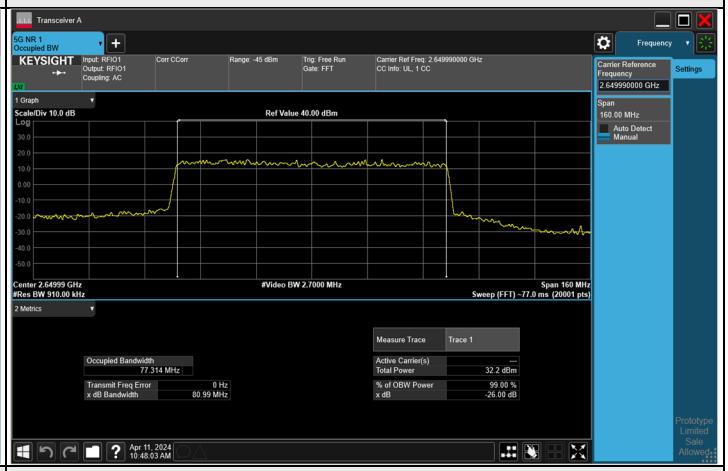
NR n41 SCS 30 kHz - MIMO-Ant6, Channel Bandwidth: 60 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	505200	2526	57.697	60.63
QPSK	518598	2592.99	57.568	60.52
QPSK	531996	2659.98	57.726	60.64
16QAM	505200	2526	57.724	60.27
16QAM	518598	2592.99	57.684	60.28
16QAM	531996	2659.98	57.782	60.46
64QAM	505200	2526	57.685	60.18
64QAM	518598	2592.99	57.661	60.00
64QAM	531996	2659.98	57.702	60.22
256QAM	505200	2526	57.674	60.22
256QAM	518598	2592.99	57.614	60.23
256QAM	531996	2659.98	57.662	60.21

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
16QAM CH 531996 (2659.98 MHz)	BPSK CH 518598 (2592.99 MHz)

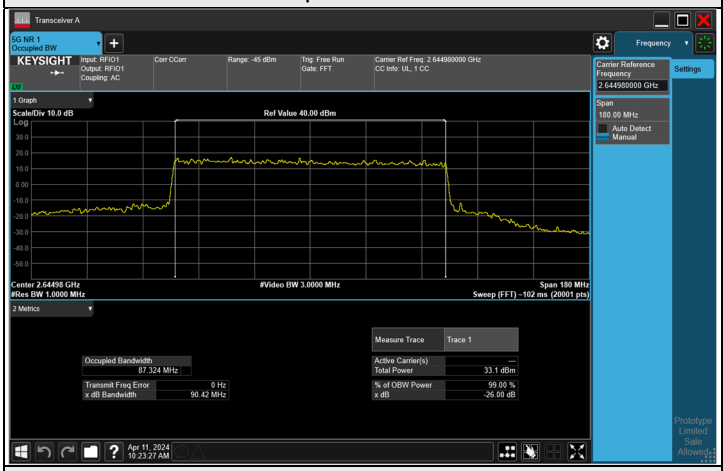
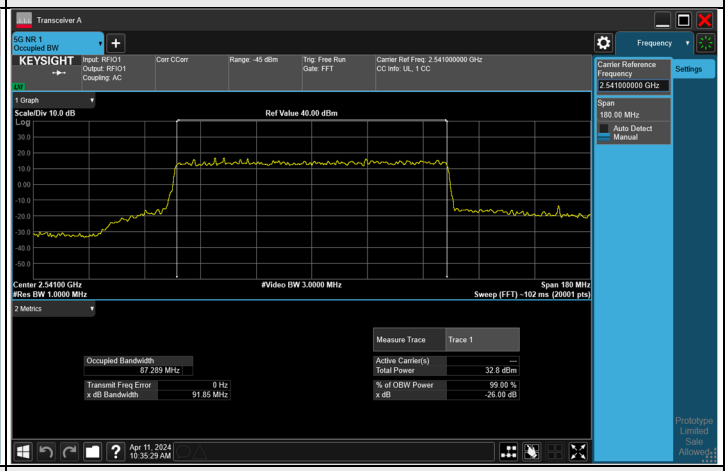
NR n41 SCS 30 kHz - MIMO-Ant6, Channel Bandwidth: 80 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	507204	2536.02	77.236	80.79
QPSK	518598	2592.99	77.094	80.49
QPSK	529998	2649.99	77.251	80.32
16QAM	507204	2536.02	77.362	80.78
16QAM	518598	2592.99	77.108	80.52
16QAM	529998	2649.99	77.318	80.01
64QAM	507204	2536.02	77.346	80.83
64QAM	518598	2592.99	77.139	80.45
64QAM	529998	2649.99	77.314	80.99
256QAM	507204	2536.02	77.506	80.47
256QAM	518598	2592.99	77.489	80.90
256QAM	529998	2649.99	77.429	80.32

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
256QAM CH 507204 (2536.02 MHz)	64QAM CH 529998 (2649.99 MHz)

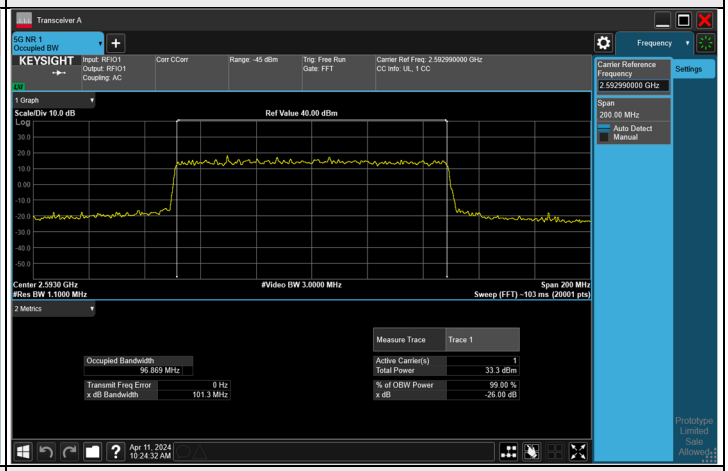
NR n41 SCS 30 kHz - MIMO-Ant6, Channel Bandwidth: 90 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	508200	2541	87.273	90.84
QPSK	518598	2592.99	87.032	90.48
QPSK	528996	2644.98	87.324	90.42
16QAM	508200	2541	87.289	91.85
16QAM	518598	2592.99	87.052	91.46
16QAM	528996	2644.98	87.323	90.53
64QAM	508200	2541	87.108	90.72
64QAM	518598	2592.99	87.070	90.55
64QAM	528996	2644.98	87.248	90.42
256QAM	508200	2541	87.052	90.43
256QAM	518598	2592.99	86.855	90.52
256QAM	528996	2644.98	87.069	90.25

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
QPSK CH 528996 (2644.98 MHz)	16QAM CH 508200 (2541 MHz)

NR n41 SCS 30 kHz - MIMO-Ant6, Channel Bandwidth: 100 MHz

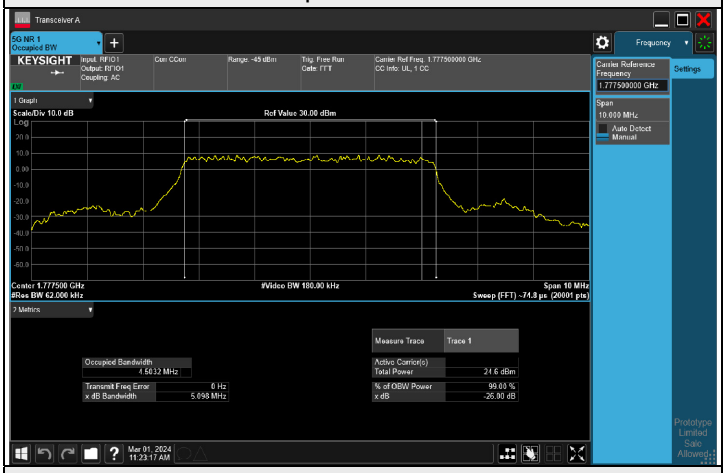
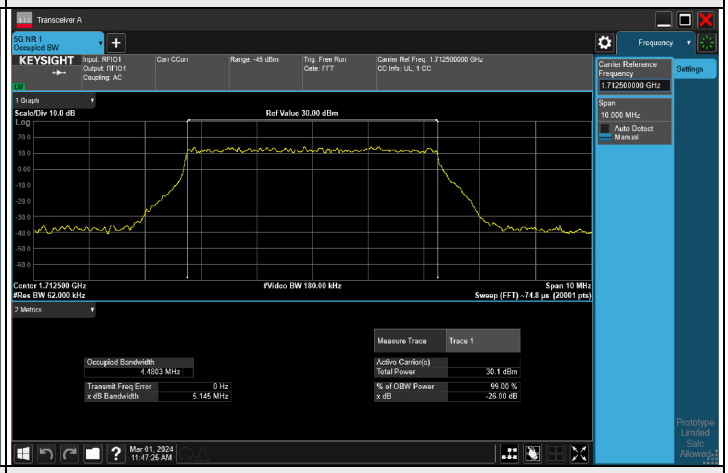
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	509202	2546.01	97.070	100.8
QPSK	518598	2592.99	96.869	101.3
QPSK	528000	2640	96.940	100.7
16QAM	509202	2546.01	97.187	100.8
16QAM	518598	2592.99	96.967	100.6
16QAM	528000	2640	97.180	100.7
64QAM	509202	2546.01	97.130	100.8
64QAM	518598	2592.99	96.883	100.8
64QAM	528000	2640	97.150	101.0
256QAM	509202	2546.01	97.360	100.9
256QAM	518598	2592.99	96.950	101.2
256QAM	528000	2640	97.063	101.2

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
256QAM CH 509202 (2546.01 MHz)	QPSK CH 518598 (2592.99 MHz)

7.4.11 NR n66 SCS 15 kHz

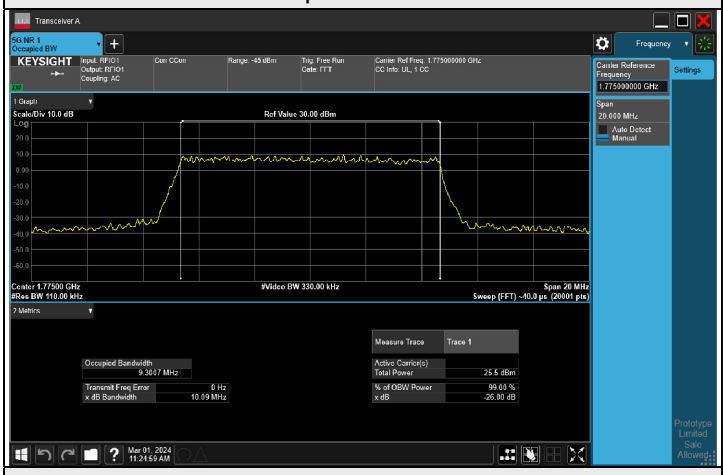
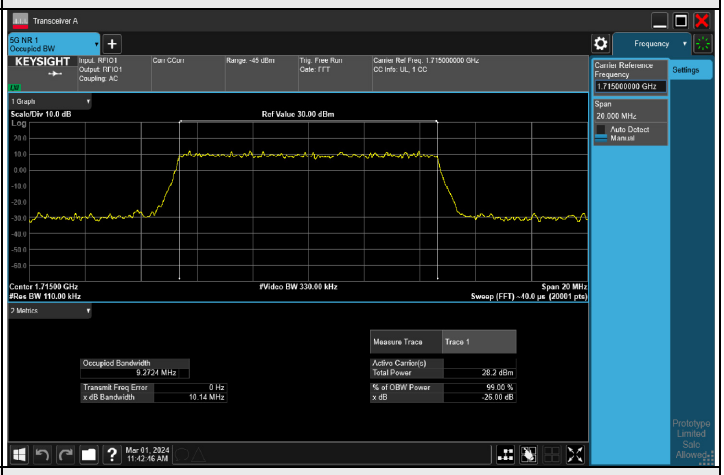
NR n66 SCS 15 kHz - Ant 0, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	342500	1712.5	4.4803	5.145
BPSK	349000	1745	4.4813	5.133
BPSK	355500	1777.5	4.4814	5.133
QPSK	342500	1712.5	4.4743	5.054
QPSK	349000	1745	4.4752	5.041
QPSK	355500	1777.5	4.4745	5.080
16QAM	342500	1712.5	4.4555	5.007
16QAM	349000	1745	4.4584	5.001
16QAM	355500	1777.5	4.4615	5.022
64QAM	342500	1712.5	4.4615	5.000
64QAM	349000	1745	4.4680	5.033
64QAM	355500	1777.5	4.4652	5.035
256QAM	342500	1712.5	4.4965	5.069
256QAM	349000	1745	4.4964	5.010
256QAM	355500	1777.5	4.5032	5.098

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
256QAM CH 355500 (1777.5 MHz)	BPSK CH 342500 (1712.5 MHz)

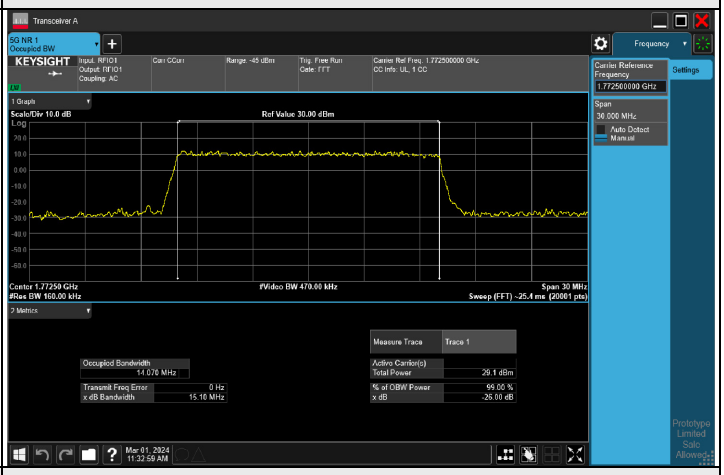
NR n66 SCS 15 kHz - Ant 0, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	343000	1715	9.1741	9.592
BPSK	349000	1745	9.2007	9.574
BPSK	355000	1775	9.2005	9.633
QPSK	343000	1715	9.2810	10.04
QPSK	349000	1745	9.2825	10.04
QPSK	355000	1775	9.2767	9.983
16QAM	343000	1715	9.2921	10.10
16QAM	349000	1745	9.2942	9.971
16QAM	355000	1775	9.2827	9.885
64QAM	343000	1715	9.2724	10.14
64QAM	349000	1745	9.2607	9.926
64QAM	355000	1775	9.2783	10.04
256QAM	343000	1715	9.2887	10.09
256QAM	349000	1745	9.2868	10.09
256QAM	355000	1775	9.3007	10.09

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
256QAM CH 355000 (1775 MHz)	64QAM CH 343000 (1715 MHz)

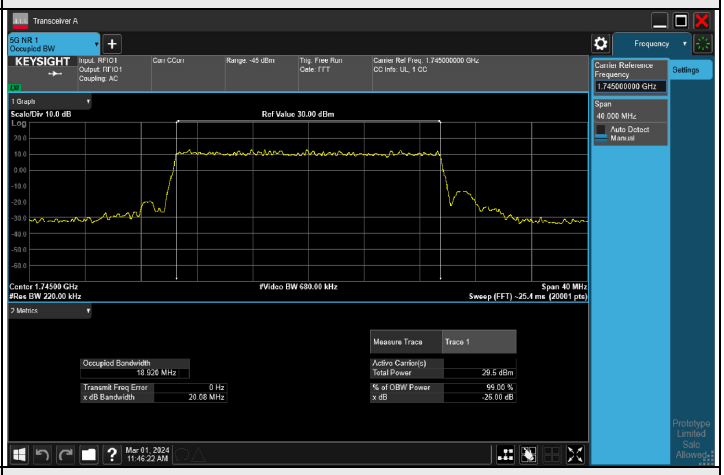
NR n66 SCS 15 kHz - Ant 0, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	343500	1717.5	14.019	14.36
BPSK	349000	1745	14.034	14.40
BPSK	354500	1772.5	14.023	14.36
QPSK	343500	1717.5	14.068	15.00
QPSK	349000	1745	14.053	14.92
QPSK	354500	1772.5	14.070	15.10
16QAM	343500	1717.5	14.071	14.96
16QAM	349000	1745	14.059	15.03
16QAM	354500	1772.5	14.077	15.04
64QAM	343500	1717.5	14.053	14.91
64QAM	349000	1745	14.035	15.00
64QAM	354500	1772.5	14.049	14.97
256QAM	343500	1717.5	14.074	14.86
256QAM	349000	1745	14.053	14.91
256QAM	354500	1772.5	14.044	14.97

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
16QAM CH 354500 (1772.5 MHz)	QPSK CH 354500 (1772.5 MHz)

NR n66 SCS 15 kHz - Ant 0, Channel Bandwidth: 20 MHz

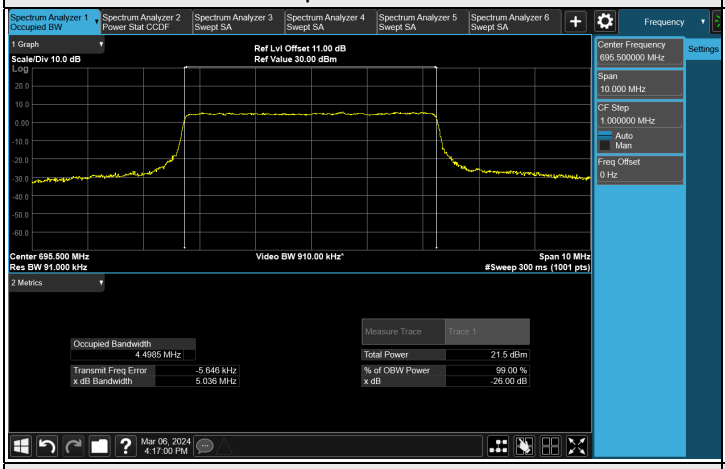
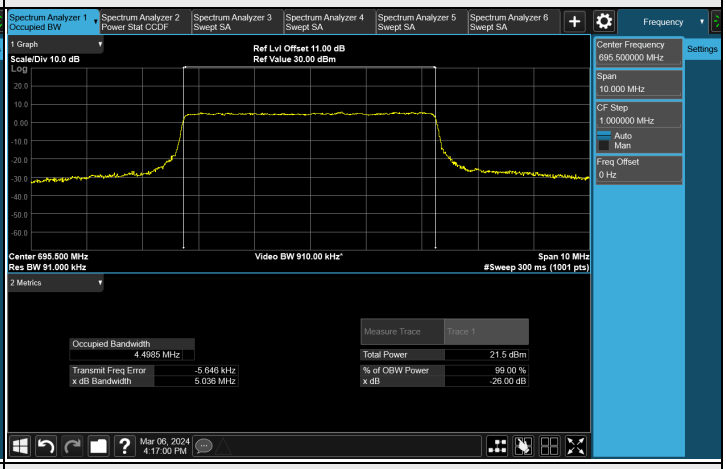
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	344000	1720	18.785	18.86
BPSK	349000	1745	18.757	18.91
BPSK	354000	1770	18.752	18.86
QPSK	344000	1720	18.881	19.82
QPSK	349000	1745	18.817	19.90
QPSK	354000	1770	18.900	19.90
16QAM	344000	1720	18.894	19.88
16QAM	349000	1745	18.854	19.92
16QAM	354000	1770	18.866	19.86
64QAM	344000	1720	18.921	19.99
64QAM	349000	1745	18.920	20.08
64QAM	354000	1770	18.886	19.99
256QAM	344000	1720	18.862	19.81
256QAM	349000	1745	18.836	19.93
256QAM	354000	1770	18.854	19.78

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
64QAM CH 344000 (1720 MHz)	64QAM CH 349000 (1745 MHz)

7.4.12 NR n71 SCS 15 kHz

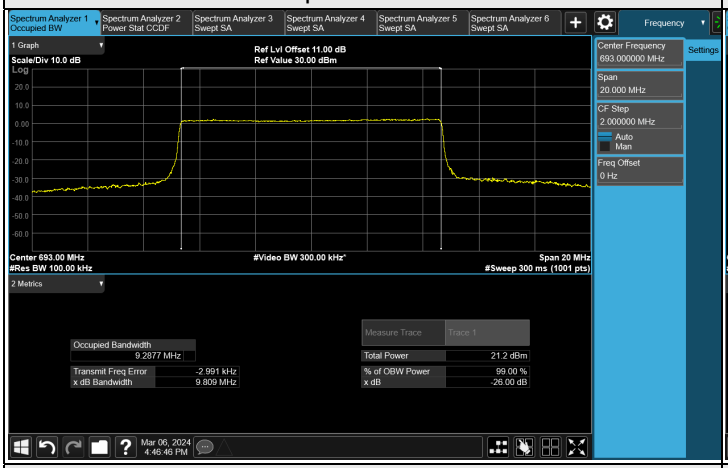
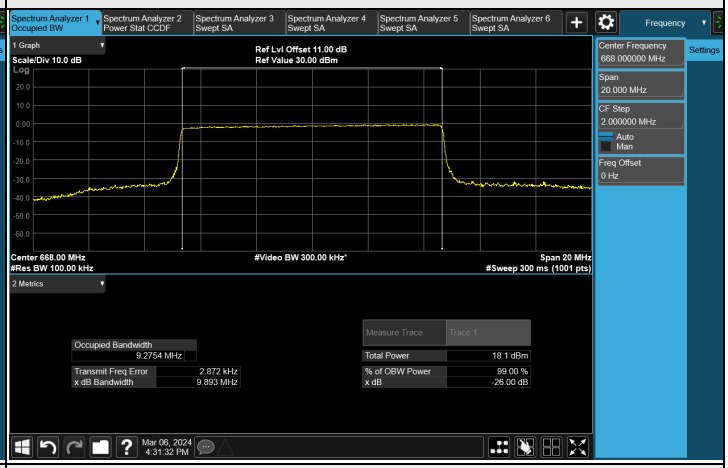
NR n71 SCS 15 kHz - Ant 0, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	133100	665.5	4.4818	4.893
BPSK	136100	680.5	4.4796	4.856
BPSK	139100	695.5	4.4851	4.85
QPSK	133100	665.5	4.4899	4.958
QPSK	136100	680.5	4.4835	4.915
QPSK	139100	695.5	4.4875	4.994
16QAM	133100	665.5	4.4898	4.966
16QAM	136100	680.5	4.4955	5
16QAM	139100	695.5	4.4985	5.036
64QAM	133100	665.5	4.4916	4.943
64QAM	136100	680.5	4.4915	4.926
64QAM	139100	695.5	4.4915	4.957
256QAM	133100	665.5	4.4879	4.917
256QAM	136100	680.5	4.4887	4.886
256QAM	139100	695.5	4.489	4.907

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
16QAM CH 139100 (695.5 MHz)	16QAM CH 139100 (695.5 MHz)

NR n71 SCS 15 kHz - Ant 0, Channel Bandwidth: 10 MHz

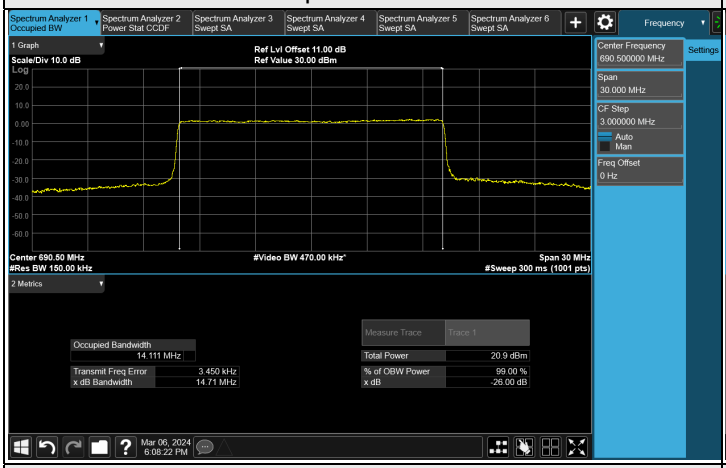
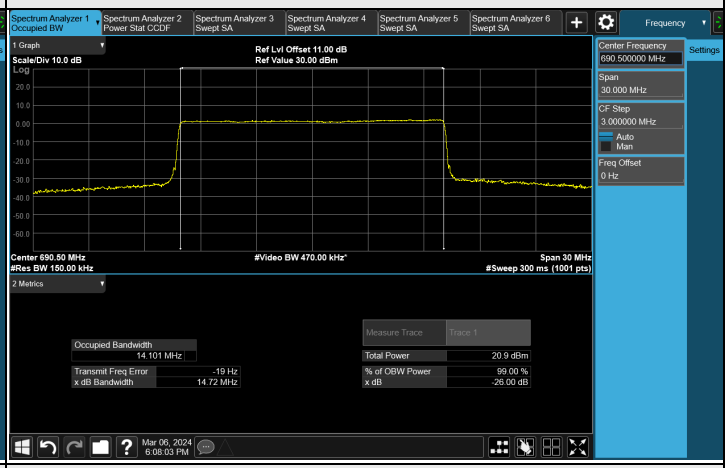
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	133600	668	8.9161	9.337
BPSK	136100	680.5	8.9154	9.305
BPSK	138600	693	8.9236	9.367
QPSK	133600	668	9.2754	9.893
QPSK	136100	680.5	9.2793	9.864
QPSK	138600	693	9.2877	9.809
16QAM	133600	668	9.2759	9.775
16QAM	136100	680.5	9.2781	9.746
16QAM	138600	693	9.2851	9.752
64QAM	133600	668	9.2644	9.718
64QAM	136100	680.5	9.2689	9.695
64QAM	138600	693	9.2766	9.758
256QAM	133600	668	9.2607	9.713
256QAM	136100	680.5	9.2696	9.768
256QAM	138600	693	9.2773	9.678

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
QPSK CH 138600 (693 MHz)	QPSK CH 133600 (668 MHz)

NR n71 SCS 15 kHz - Ant 0, Channel Bandwidth: 15 MHz

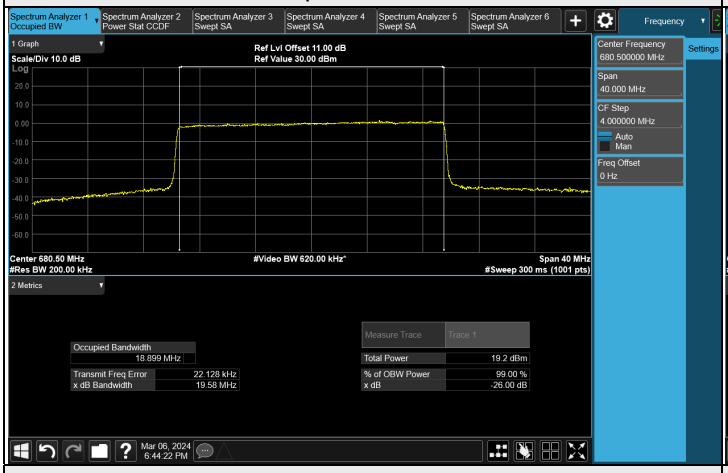
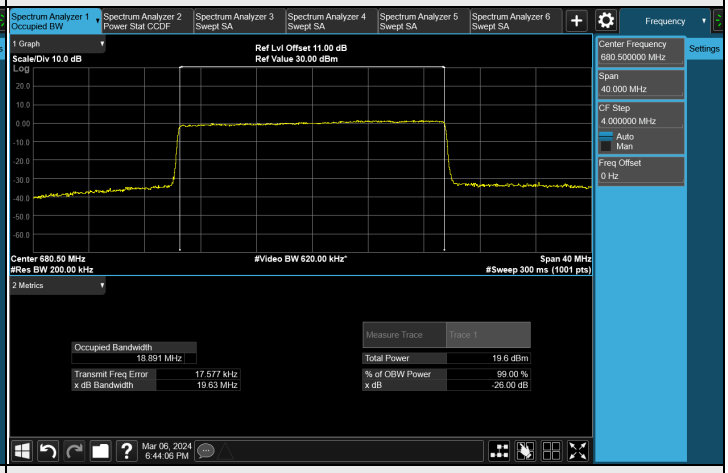
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	134100	670.5	13.39	13.92
BPSK	136100	680.5	13.399	13.96
BPSK	138100	690.5	13.399	13.96
QPSK	134100	670.5	14.081	14.65
QPSK	136100	680.5	14.091	14.63
QPSK	138100	690.5	14.101	14.72
16QAM	134100	670.5	14.094	14.69
16QAM	136100	680.5	14.1	14.66
16QAM	138100	690.5	14.111	14.71
64QAM	134100	670.5	14.085	14.66
64QAM	136100	680.5	14.099	14.71
64QAM	138100	690.5	14.107	14.67
256QAM	134100	670.5	14.086	14.6
256QAM	136100	680.5	14.093	14.66
256QAM	138100	690.5	14.106	14.62

Spectrum Plot of Worst Value

Occupied bandwidth	26 dB Bandwidth
	
16QAM CH 138100 (690.5 MHz)	QPSK CH 138100 (690.5 MHz)

NR n71 SCS 15 kHz - Ant 0, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	134600	673	17.835	18.51
BPSK	136100	680.5	17.844	18.5
BPSK	137600	688	17.83	18.51
QPSK	134600	673	18.887	19.59
QPSK	136100	680.5	18.892	19.62
QPSK	137600	688	18.895	19.63
16QAM	134600	673	18.888	19.62
16QAM	136100	680.5	18.891	19.63
16QAM	137600	688	18.898	19.59
64QAM	134600	673	18.893	19.6
64QAM	136100	680.5	18.899	19.58
64QAM	137600	688	18.899	19.61
256QAM	134600	673	18.888	19.58
256QAM	136100	680.5	18.897	19.57
256QAM	137600	688	18.898	19.59

Spectrum Plot of Worst Value	
Occupied bandwidth	26 dB Bandwidth
	
64QAM CH 136100 (680.5 MHz)	16QAM CH 136100 (680.5 MHz)